KUZENTSOVA, Z.I.; IVANOVA, V.S.; SHORYGINA, N.N.

Reaction of dialcohol cellulose with nitrogen oxides. 12v. 'N SSSR. Ser. khim. no.9x1682-1684 '65. (MIRA 18:9)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

Carbocyclization of 2,3,4-tri-Committy-1,6-universalimotymense by the aution of matallic society in pyridine mentur. Izv. al middlese. Elsa 18:10) Elsa ne.10:1870-1872 [65].

l. institut rganichenkoy khimii im. N.O.Celinshogo Al SSSR.

SHORYGINA, M.M.; SDYKO7, T.S.; KOSHETEROV, A.K.

Study of lignins of Fhragmites communis Trin. Hhim. prirod, soed. no.6:424-427 '65. (MTRA 19:1)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR i Karakalpakskiy filial AN UZSSR.

#### "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549910014-7

EWT(m)/EWP(j)/T 37210-66 SOURCE CODE: UR/0062/66/000/004/0743/0746 ACC NR: AP6014411 AUTHOR: Kuznetsova, Z. I.; Ivanova, V. S.; Shorygina, N. N. ORG: Institute of Organic Chemistry im, N. D. Zelinskiy Academy of Sciences SSSR (Institut organicheskoy khimii Akademii nauk SSSR) TITLE: Reaction of cellulose dialdehyde with gaseous nitrogen oxides SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 4, 1966, 743-746 TOPIC TAGS: cellulose, nitration, oxidation, nitrate ester ABSTRACT: The reaction of cellulose dialdehyde with nitrogen oxides in the presence of P205 was investigated. Without P205, cellulose dialdehyde is only oxidized by N2O4; in the presence of P2O5, oxidation, oxidation-nitration, or then essentially only nitration products are obtained as the weight ratio of P<sub>2</sub>O<sub>5</sub>:cellulose dialdehyde is increased from 0:1 to 400:1. The <u>trinitrate of cellulose dialdehyde</u> was obtained and its structure proposed. Orig. art. has: 2 tables and 2 equations. SUB CODE: 07/ SUBM DATE: 13Aug65/ ORIG REF: 006/ OTH REF: 001 Card 1/1/11/12 UDC: 547.458.81

S/812/61/000/005/005/005

Candidate of Technical Sciences, Zarubitskiy, AUTHORS: Shorygina, N.V.,

Engineer.

Production of shale and oil-shale resin-tars. TITLE:

Akademiya stroitelistva i arkhitektury SSSR. Institut novykh

stroitel nykh materialov. Sbornik trudov. no.5. 1961. Novyye SOURCE: stroitel nyye polimernyye materialy. pp. 99-107.

The paper reports an investigation of the effect of the acid and neutral components of shale oil on the physico-mechanical properties of shale-formaldehyde resin obtained from shale oil and formalin. It is established that the acid component of the shale oil, which consists primarily of phenol, reduces the elasticity, strength, and water-resistance of the resin. Initial materials used in making experimental specimens: (1) Generator shale oil of the shale-refining Kombinat at Kokhtlya-Yarva with a spec. grav. 1.015, water content 1%, viscosity 2.9°E at 75°C, flash point 90°, ash content 0.3%, S content 1.2%. (2) Shale gudron (asphalt flux) retained in the residue after boiling off of all generator-oil fractions up to 3250 retained in the residue after boiling of the state of the of 40°, a ductility of 51 cm, and a viscosity at 60° of 159 sec as measured in a

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Production of shale and oil-shale resin-tars.

5/812/61/000/005/005/005

viscosimeter with a 5-mm-diam aperture. (4) Formalin of the Kuskovo Chemical Plant, containing 39.5% formaldehyde, 7.8% methyl alcohol, 0.03% acids (as expressed in formic acid). The resin was prepared in an electrically-heated 2-liter steel flask equipped with a thermometer compartment, a charging door, a meghanical mixer, and a cooler, and in a similarly equipped 10-liter reactor. To separate the acid and neutral compounds from the shale-oil resins, the oil was dissolved in benzol (1:1) and the solution was mixed with a 5% NaOH solution (1:1). Upon stirring and settling, a lower phenolate-containing layer separated from an upper layer containing the neutral and other compounds. The phenolate was acidulated by a 5% HCi-solution and was washed with water. The separated acid compounds were dried for condensation with formaldehyde (yield officid part: 15%). neutral and other compounds were washed with water and dried for condensation with formaldehyde. The elasticity, strength, and 24-hriwater resistance (at 20°C) of the acid- and neutral-compound-containing resins are tabulated in detail. Copolymerization of (a) shale and petroleum gudrons not containing phenols with (b) shale oil containing phenols, with formalin treatment of the mixture, yields resins that exhibit an elevated softening T, elasticity, impact strength, and waterresistance (details on both composition and characteristics are tabulated). The components were charged into the above-described flask or reactor and were condensed for 2 hrs at 85-900, whereupon the resin obtained was dried at 95-105

Card 2/3

Production of shale and oil-shale resin-tars.

S/812/61/000/005/005/005

(2 hrs) and then heated in two stages, namely, for 3 hrs at 150-160° and for 10 hrs at 210-220°. The resin yield was 95.4%. Optimal composition in parts of weight: Shale asphalt flux 50, shale oil 50, 39.5% formalin 5, HCl (spec. grav. 1.19) 1, chlore iron 1. The principal characteristics of the optimal composition are listed. An increase in shale oil reduces the softening T, hardness, and impact strength; a reduction accomplishes the opposite. The shale-formaldehyde resins are acid, turpentine, gasoline, benzol, toluol, and are thermoplastic, but are soluble in eliminates the need for expensive and not readily available lamination plastifiers same resins are also suitable for the making of mastics, heat-insulation, and other materials. There are 3 numbered (and numerous unnumbered) tables; no figures or references.

ASSOCIATION: None given.

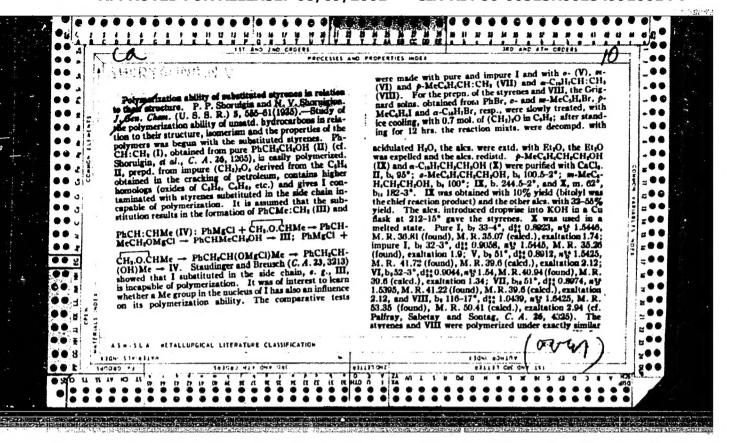
Card 3/3

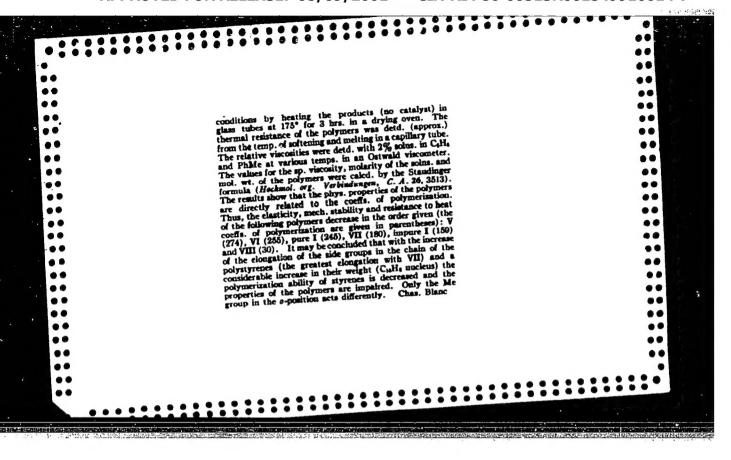
KOSHKIN, V.G., kand. tekhn. nauk; MAKOTINSKIY, M.P., kand. arkh.; MUNTS, V.O., kand. arkh.; RUDINA, M.A., arkh.; SILUANOVA, G.V., arkh.; SHORYGINA, N.V., kand. khim. nauk. Prinimali uchastiye: BOGUSLAVSKIY, A.I., inzh.; ZARUBITSKIY, A.Ye., inzh.; LIVSHITS, A.M., inzh.; MASHINA, N.N., inzh.; OTLIVANCHIK, A.N., kand. tekhn. hauk; ROMANOVA, L.A.,inzh.; CHERKINSKIY, Yu.S., inzh.; ANDREYEV, V.S., retsenzent; IOFAN, B.M., retsenzent; KRIPPA, A.I., arkh., retsenzent; GURVICH, E.A., red.izd-va; BRUSINA, L.N., tekhn. red.

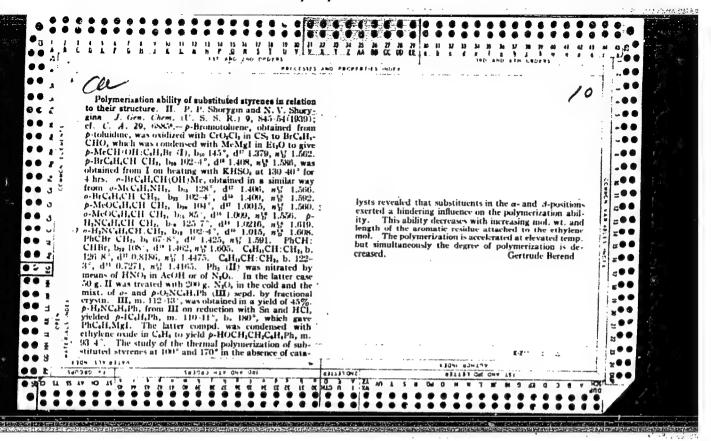
[Catalog of finishing materials and articles] Katalog otdelochnykh materialov i izdelii. Pod red. M.P.Makotinskogo. Moskva, Gosstroiizdat. Pt.1.[Plastics; polymer finishing materials and articles] Plastmassy; polimernye otdelochnye materialy i izdeliia. 1962. 119 p. (MIRA 16:4)

1. Moscow. Vsesquiznyy nauchno-issledovatel'skiy institut novykh stroitel'nykh materialov. 2. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Andreyev, Iofan, Krippa).

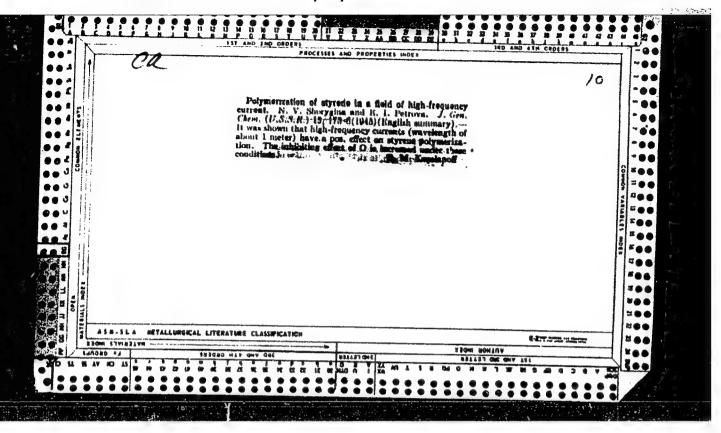
(Finishes and finishing--Catalogs) (Plastics)







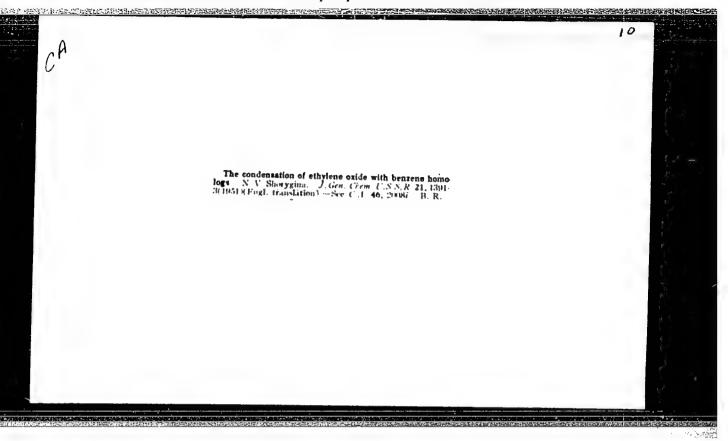
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SHORYGINI, M. V.

"The condensation of ethylene oxide with benzene homologues." (p. 1273)

SO: Journal of General Chemistry (Zhurnal Obehchei Khimii) 1951, Vol 21, No 7.

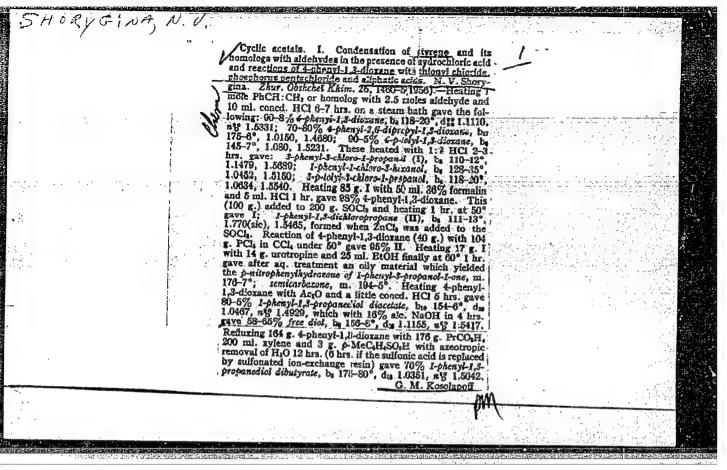


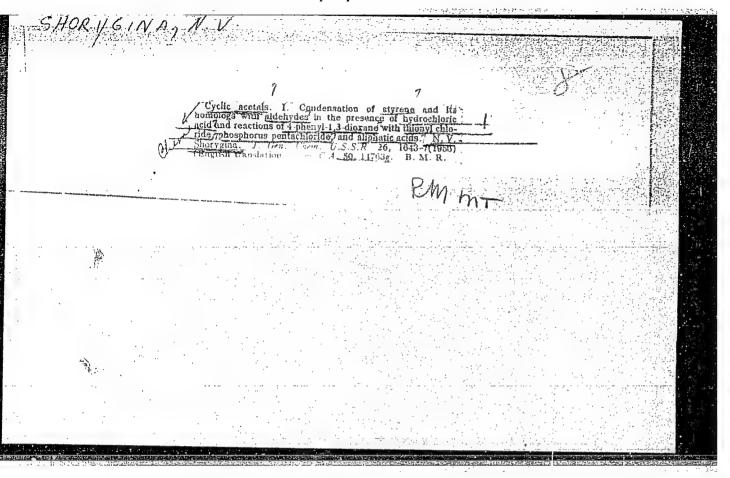
SHUB, I. Ye., kandidat tekhnicheskikh nauk; SHORYGINA, N.V., kandidat khimicheskikh nauk; KANTOR, P.I., inzhener.

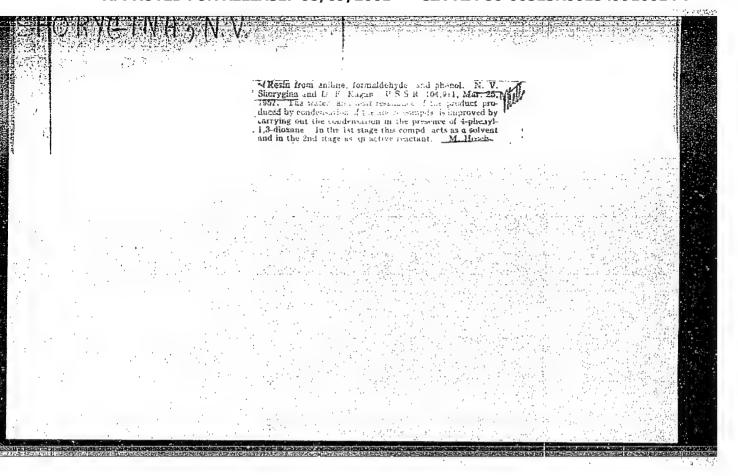
Gluing together the two halves of the shell mold. Lit.proizv. no.11:2-5 N %56.

(Shell molding (Founding)) (Gluing)

(Shell molding (Founding))

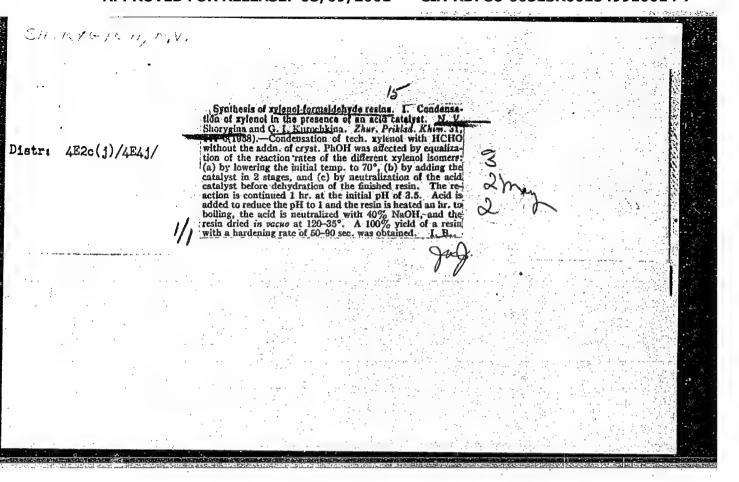






SHORYGINA, N.V., kandidat khimicheskikh nauk.; OTLIVANCHIK, A.N., kandidat tekimicheskikh nauk.

The use of phenolic resins as binding materials. Der prom. 6 no.2: 15-16 F '57. (MTRA 10:4)
(Gums and resins, Synthetic) (Binding materials)



Condensation of xylenols in the presence of alkaline catalysts.

Zhur. prikl. khim, v. 31 no.5:810-813 My '58. (MIRA 11:6)

(Condensation products (Chemistry)) (Xylenols)

SHORYGINA, N.V., kand.khim.nauk; KUROCHKINA, G.I., inzh.; KOZEL'TSEV, L.I., inzh.

Resins based on composite phenols and their use in making particle board. Stroi.mat. 5 no.12:22-24 D '59.

(MIRA 13:3)

(Gums and resins, Synthetic) (Wood, Compressed)

5.3400

77539 sov/80-33-1-48/49

AUTHORS:

Shorygina, N. V., Chernov, A. G.

TITLE:

Brief Communications. Synthesis of Copolymers of Styrene With Formaldehyde. Communication II, From the Series of Investigations of Cyclic Acetals

PERIODICAL:

Zhurnal prikladnoy khimii, 1960, Vol 33, Nr l, pp

251-253 (USSR)

ABSTRACT:

Two copolymers of styrene and formaldehyde were prepared. The first copolymer was obtained by telomerization of one mole of styrene with two moles of formaldehyde. The elemental composition corresponds to the copolymer of styrene with formaldehyde in the ratio 1 to 1; the polymer contains 12% oxygen. The absence of other functional groups indicates a telomer

with ether linkages.

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Brief Communications. Synthesis of Copolymers of Styrene With Formaldehyde. Communication II, From the Series of Investigations of Cyclic Acetals

77539 SOV/80-33-1-48/49

The second copolymer was obtained by condensation of one mole of styrene with 3 moles of formaldehyde, and contains 18% oxygen. The elemental composition corresponds to a copolymer of styrene with formaldehyde in the ratio 4 to 7.

-CH-CH<sub>2</sub>-CH<sub>2</sub>O-CH<sub>2</sub>O-CH-CH<sub>2</sub>-CH<sub>2</sub>O-CH<sub>2</sub>O-CH-CH<sub>2</sub>-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH<sub>2</sub>O-CH

The second copolymer was used for the preparation of phenol-formaldehyde resins.

Card 2/4

Brief Communications. Synthesis of Copolymers of Styrene With Formaldehyde. Communication II, From the Sories of Investigations of Cyclic Acetais

77539 SOV/80-33 -1-48/49

The change of free phenol content in the condensation of styrene-formaldehyde copolymer with phenol.

~	2	~	12	
0	63.3	160	42.3	
20	55.95	190	42.41	
50	48.25	230	42.40	
80	44.95	260	40.59	
130	44.38	300	41.3	

a = Time from the start of reaction in min b = free phenol content (in %)

From the above resin a powder was obtained which after pressing gave blocks with a heat resistance of over 300°, according to Martens. There are 2 tables; and 4 references, 1 Soviet, 3 U.S. The U.S. refererences are: J. W. Breitenbach, J. Phys. Chem., A.

Card 3/4

Brief Communications. Synthesis of Copolymers of Styrene With Formaldehyde. Communication II. From the Series of Investigations of Cyclic Acetals

77539 SOV/80-33-1-48/49

187, 175 (1940); D. D. Coffman, J. Am. Chem. Soc., 73, 4748 (1951); F. A. Bovey, ibid, 69, 2143

SUBMITTED:

May 9, 1959

Card 4/4

S/081/62/000/019/033/053 B101/B180

AUTHORD:

shorygina, H. V., Chernova, A. G.

TITLE:

Maphthalene phenol formaldehyde resins and molding materials

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 19, 1962, 511, abstract. 19764 (Izv. All Kirgbüh, Ber. yestestv. i tekhn. n., v. 3,

no. 2, 1961, 57-63 (summary in Kirg.])

TEXT: Formolites with softening point ~80°C, readily soluble in benzene, poorly soluble in ethyl alcohol, and insoluble in petroleum ether, were obtained by condensing naphthalene (I) with formaldehyde (II) at molar ratios of 1:1, 1:2, 1:3, 1:4, and 1:5 in the presence of 45% sulfuric acid

at -100°C for 20-24 hrs. The elementary composition of the resin was found to depend on the I:II ratio, and the presence of acetal groups in the resin was proven. All the formalites were found to react with phenol, binding 23-54, of the latter. Reaction of formalite (synthesized from 1 male of I and 4 males of II) with phenol in the presence of HCl (acid) yielded a novolac resin with Ubbelohde drop point 90-110°C and, Card 1/2

on its basis, a molding natural with a heat resistance of  $\sim 400^{\circ}$ C. The physical and mechanical properties of molding powders based on naphthalene phenol formaldehyde resin are given, and their variations on heating. [Abstractor's note: Complete translation.]

Card 2/2

15.8091

S/081/62/000/021/048/069 B162/B101

AUTHORS:

Shorygina, N. V., Chingyshbayev, D.

TITLE:

Resol styrene-phenol-formaldehyde resin "Stirolit P" (R)

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 21, 1962, 448-449, abstract 21P17 (Izv. AN KirgSSR. Ser. yestestv. i tekhn. n., v. 3, no. 2, 1961, 65-71 (summary in Kirg.)

TEXT: To obtain emulsion resol resin "Stirolit R" from the styreneformaldehyde copolymer, condensation is effected at a ratio of phenol:formalitimal 1:1, 1:0.75, 1:0.5, 1:0.25 at 120-130°C. It is found that the
optimum is the ratio of 1:0.5, at which a high degree of interaction is
obtained and the thermosetting properties of the resin are preserved.
It is shown also, for the resin "Stirolit R" that the modulus of
elasticity in the state of curing does not change up to 450°C.

Abstracter's note: Complete translation.

 $\sqrt{3}$ 

Card 1/1

SHORYGINA, N.V., kand, khim.nauk; ENFIADZHYAN, M.A., inzh.

Improving the permeability of seamless mastic floors. Stroi. mat. 7 no.2:34-35 F '61. (MIRA 14:3) (Floors, Concrete) (Vinyl polymers)

SHORYGINA, N.V., kand.khim.nauk; CHERNOVA, A.G.; DERZHINSKIY, A.R.

Obtaining of phenanthrene phenol formaldehyde resins. Koks i khim. no.10:43-46 162. (MIRA 16:9)

1. Nauchno-issledovatel'skiy institut plastmass (for Shorygina, Chernova). 2. Vostochnyy uglekhimicheskiy institut (for Derzhinskiy).

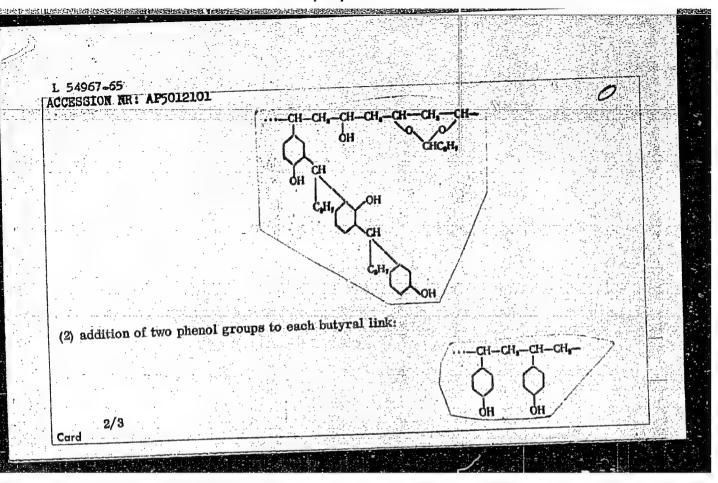
(Coke industry—By-products)

(Phenol condensation products)

SHORYGINA, N.V., kand.khimicheskikh nauk; ENFIADZHYAN, M.A., inzh.

Increasing the water resistance of polyvinyl acetate mastic floors. Stroi. mat. 8 no.4434-35 Ap '62. (MIRA 15:8) (Mastic) (Floors)

EWT(m)/EWP(j) L 54967=65 UR/0191/65/000/005/0008/0910 ACCESSION NR: AP5012101 Zhilina, N. V. AUTHOR: Shorygina, N. V.; Phenolysis of polyvinyl butyral TITLE: Studies of cyclic acetals. SOURCE: Plasticheskiye massy, no. 5, 1965, 8-10 TOPIC TAGS: cyclic acetal, polyvinyl butyral, acetal phenolysis, phenol formaldehyde resol ABSTRACT: The authors studied the influence of the initial amount of phenol on the extent of its reaction with polyvinyl butyral. When the amount of phenol in the initial mixture was raised from 32% to 78%, the amount of reacted phenol increased from 20% to 36% of the amount introduced; after 2.5-3 hrs. this amount ceased to change. A study of the influence of temperature on phenolysis showed that a change from 90 to 130C was associated with an increase from 29.0 to 37.5% in the amount of reacted phenol. I'rom a study made in the presence of excess phenol, it was concluded that three or more phenol groups add to each monomer unit in polyvinyl butyral. This is possible only in two cases: (1) growth of the side chains formed by the reaction of phenol with the butyraldehyde which splits off: 1/3 Card



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nenol-modified polyvinyl butyr nproves their elastic properti	ral can be cor es and increa	mbined wit uses their	n p <u>nenoi-ic</u> strength ch	aracteristic	s owing to the	16
and of a greater number of	I CIUDO TITUE	than in p	re polyvin	yi butyrai.	Orig. ait.	
as: 3 figures, 3 formulas and	2 tantos.					
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L 52135-65 - EPV(c)/ENP(A)/ENT(m) ACCESSION NR: AP5015297 UR/0286/65/000/009/0068/0068 AUTHORS: Shorygina, N. V.; Pilyayava, V. F. TITLE: A method for obtaining formolites. Class 39, No. 170669 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 68 TOPIC TAGS: formolite, formaldehyde, inorganic acid, catalyst, anthracene. sulfuric acid, hydrochloric acid ABSTRACT: This Author Certificate presents a method for obtaining formolites by condensing formaldehyde and a mixture based on anthracene, in the presence of an inorganic acid used as a catalyst. To simplify the production process and to

chloric acid. ASSOCIATION: Nauchno-issledovatel'skiy institut plasticheskikh mass (Scientific

diminish the amount of catalyst, a mixture of raw anthracene and anthracene oil is applied. This reaction may be conducted in the presence of sulfuric or hydro-

Research Institute of Plastics)

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	ing fireproof and head formaldehyde and arylphenolformaldehyde it during the fication of phenolformaldehyde and arylphenolformaldehyde it during the an organic phosphorus-containing compound and introducing it during the an organic phosphorus-containing compound and introducing it during the an organic phosphorus-containing compound and introducing it during the an organic phosphorus-containing compound and introducing it during the process of tar formation. To increase the fire and heat resistance of process of tar formation.	
	Card 1/2 UDC: 678.632'0'21:678.85	- Congress

Some studies of the electrohydraulic effect. Elektroenergiia 13 no.7:9-11 J1 '62.

L 60883-65

ACCESSION NR: AR5015899

UR/0299/65/000/009/4020/M020 616.003.93

SOURCE: Ref. zh. Biologiya. Svodnyy tom. Abs. 94112

AUTHOR: Shoshas, I I.

TITLE: Plastics in alloplasty of abdominal hernia

CITED SOURCE: Tr. 10 S"yezda khirurgov USSR, 1962. Kiyev, Gosmedizdat USSR, 1964, 470-472

TOPIC TAGS: surgery, abdominal surgery, alloplasty, hernioplasty, implantation, caprone

TRANSIATION: In abdominal hernioplasty, caprone gauze of various mesh was used as the alloplastic material. The size of the implant averaged 10 x 6 cm. In post-operative, relapsing, and larger hernias the implant ranged from 18 to 1200 cm<sup>2</sup>. After 5 days the implant was intergrown with connective tissue, and the wound had healed by secondary union in all of the patients. No sequestration was observed. The healing of the wounds did not essentially depend on the character of the alloplastic material. Over a period of 36 months following surgery no relapses were noted. N.S.

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SHOGHENIN, K. A.

SHOSHENKO, K. A. -- "Compensatory Adaptation of the Central Nervous System after Section of the Anterior Half of the Spinal Cord in Birds." Second Moscow State Med Inst imini I. V. Stalin, Moscow, 1955. (Dissertations for the Degree of Candidate of Medical Sciences)

So: Knizhnaya Letopis: No. 39, 24 Sept 55

# Fatigue in pigeons and chickens after transection of the ventral and lateral portions of the spinal cord. Fiziol.zhur. 47 no.2: 247-252 F '61. (MIRA 14:5)

l. From the Physiology and Pharmacology Chair of the Pharmaceutical Institute, Piatigorsk.

(SPINAL CORD) (FATIGUE)

#### "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549910014-7

NIKIFOROVA, S.F.; SHOSHENKO, K.A.

Structure and development of the capillary bed in the skin of the frog. Arkh. anat., gist. i embr. 47 no.9:92-98 S 164.

(MIRA 18:11)

1. Kabinet mikrofiziologii (zav. - kand.med.nauk K.A.Shoshenko) Instituta tsitologii i genetiki Sibirskogo otdeleniya AN SSSR, Novosibirsk. Submitted Sept. 21, 1963.

NIKIFOROVA, S.F.; SHOSHENKO, K.A.

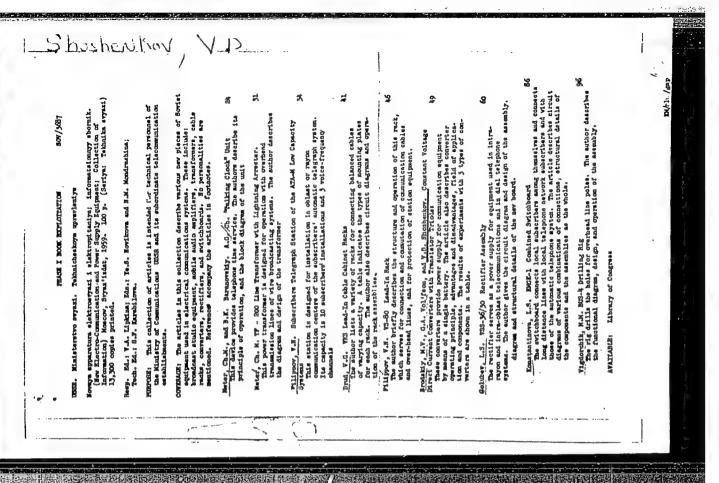
Some principles of the structure and function of the capillary bed. Biul. eksp. biol. i med. 59 no.2:25-29 F '65. (MIRA 18:7)

1. Kabinet mikrofiziologii (zav. - K.A. Shoshenko) otdela eksperimental'noy biologii i patologii (zav. B.B. Fuks) Instituta tsitologii i genetiki (dir. D.K. Belyayev) Sibirskogo otdeleniya AN SSSR, Novosibirsk.

PETROV, V.V.; BRODSKIY, M.V.; SHOSHENKOV, V.D. Basis for the selection of a system of automatic channel

switching of radio links. Elektrosviaz' no.11:25-33 N '56. (MLRA 9:12)

(Radio relay systems)



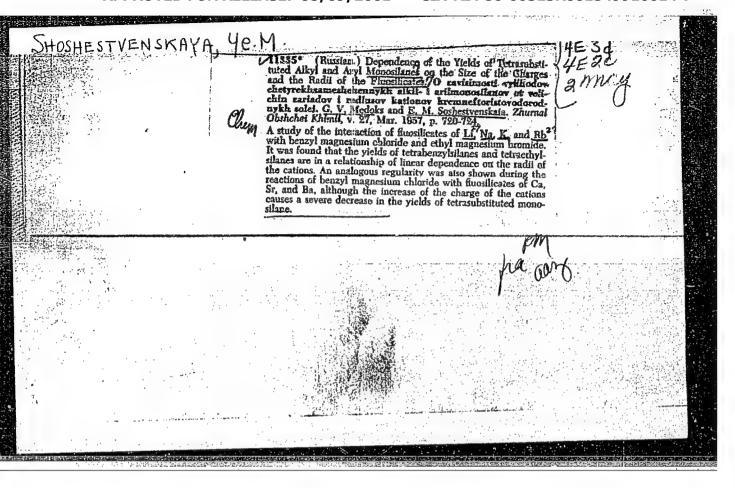
SHOSHESTVENSKAYA, Ye.M.

Preparation of arylhalomonosilanes. Zhur.ob.khim. 26 no.1:
231-232 Ja '56. (MLRA 9:5)

(Silane)

#### "APPROVED FOR RELEASE: 08/09/2001

#### CIA-RDP86-00513R001549910014-7



CHACHANIDZE, G.D.; KARUMIDZE, Z.A.; KHARASHVILI, TS.G.; Prinimala uchastiye: SHOSHIASHVILI, E.

Conversion reactions of mixed nitrate salts. Trudy Inst.prikl. khim.i elektrokhim.AN Gruz.SSR 3:169-180 62. (MIRA 16:1) (Nitrates) (Ammonium nitrate)

PURTSELADZE, Kh.G.; TOPURIYA, Z.M.; CHKONIYA, T.K.; SHOSHIASHVILI, E.N.

Thermal dissociation of artificial manganese dioxide samples.

Trudy Inst.prikl.khim.i elektrokhim.AN Gruz.SSR 3:163-168 '62. (MIRA 16:1)

(Manganese oxide—Thermal properties)

SUCSHIASHWILL, I.I

Shoshicshvili, I. "Date dealing with the study of the bioecology of diploid-maire in George," Trudy In ta zashchity rasteniy (Akad. nauk Gruz. SSR), Vol. V, 1948, p. 225-48, (In Georgian, resume in Russian), - Bibliog. Al items

SO: U-Loak, 29 Oct 53, (Let pis 'Zhurnal 'nykh St tey, No. 16, 1949).

- 1. SHOSHIASHMILI, I. I., KIRMELASHVILI, N. S.
- 2. USSR (600)
- 7. "Concerning the Question of the Harmfulness of the Peronospora of the Onion", Trudy In-ta Zashchity Rasteniy AN Gruz. SSR (Works of the Institute of Plant Protection, Acad Sci Georgian SSR), Vol 7, 1950, pp 179-188.

9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132. Unclassified.

# SHOSHIASHVILI, I.I.; KIRMELASHVILI, N.S.

Contribution to the study of the downy mildew of onions (Perenosporacese) in Georgia [in Georgian with summary in Russian]. Trudy Inst. zashch.rast. AN Gruz. SSR 9:197-211 '53. (MIRA 8:2) (Georgia--Downy mildew)(Onions--Diseases and pests)

Country : USJR CULTIVATED PLANTS, POTATOES, Vegetables. Cucurbits. Caregory Abs. Jour. : NEF ZHUR-BIOL., 21, 1958, NO-959 80 : Shoshiashvill T.I. Author Institut. : Findings of a Study of Potato Wilt and Control Malo Mensures in the Georgian SSR Orig. Pub. : Tr. In-ta zashchity rast. AN GruzSSR, 1957, 12, 31-38 : Potato wilt is wid spread throughout all the Abstract districts of Georgia. The damage caused by it reaches 64% in April sowings, 60% in June and 59.3% in July plantings. The summer sowing of vernalized tubers reduces wilt and increases the yield. The vernalization of spring plantings lescens the intensity of infection through wilt (especially in July) and boosts the harvest. Regular watering (at least four times), fertilization, as well as high sidedressing doses of mineral Card: 1/2

#### "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549910014-7

DZHAMBURIYA, G.D.; MELITAURI, K.N.; KHAHTADZE, Sh.A.; SHOSHIASHVILI, N.F.;
BARMAVELI, T.V. [translator]; BERIDZE, V.V., red.; HAKRADZE, D.S.,
red.izd-va; DZHAPARIDZE, N.A., tekhn.red.

[Vardzia; guidebook] Vardzia; putevoditel'. Tbilisi, Izd-vo Akad.
nauk Gruzinskoi SSR, 1957. 93 p.
(Georgia--Description and travel-Guidebooks)
(Kura Valley--Honasteries)

CHISTOVICH, G.N.; BLYUMENPEL'D, O.M.; GORODEL'SKAYA, E.A.; PETUKHOVA, R.N.; POLOZOVA, T.V.; TERRIT'TEVA, T.A.; SHILOVA, N.V.; SHOSHICHA, S.V.

Individual properties of staphylococcus cultures. Zhur.mikrobiol. epid.i immun. no.7:101 J1 '54. (MIRA 7:9)

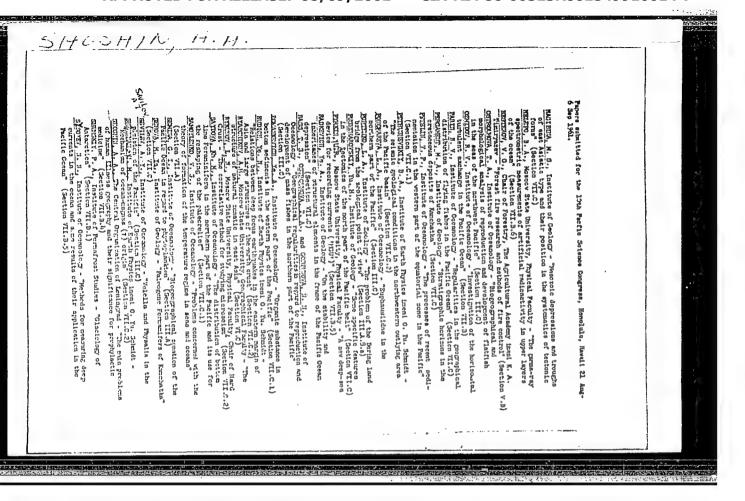
1. Iz kafedry mikrobiologii I Leningradskogo meditsinskogo instituta im. Pavlova. (STAPHYLOCOCCUS)

## SHOSHIN, A. A.

Improvement and Washing of Saline Soils of the Kura and Araks Delta Sots. S. Kh. Azerbaydzhana, No 1, 1954, pp 5-9

A considerable part of the saline soils of the Kura and Araks Depression is characterized by the prevalence of chlorides of sodium and magnesium. In order to improve these soils it is necessary not only to remove the salts, but also to prevent their "migration" by providing drainage of the descending currents of water. This must be done to secure the ground-water regime and to prevent resalting of the soil. (RZhBiol, No 2, 1955)

SO: Sum. No. 639, 2 Sep 55



SHOSHIN, A.A., otv. red.; BYAKOV, V.P., red.; IGNAT'YEV, Ye.I., red.; KELLER, A.A., red.; YAKOVLEV, A.V., red.

[Materials of the Commission on Medical Geography] Materialy Komissii meditsinskoi geografii. Leningrad. Pt.1. 1961. 76 p. (MIRA 15:1)

1. Geograficheskoye obshchestvo SSSR. (MEDICAL GEOGRAPHY)

SHOSHIN, A.A.; IGNAT'YEV, Ye.I.; MARKOVIN, A.P.; BYAKOV, V.P.

Present-day status of medical geography and the prospects for its development. Mat.Kom.med.geog.Geog.ob-va SSSR pt.1:14-22 '61.

(MIRA 15:10)

(MEDICAL GEOGRAPHY)

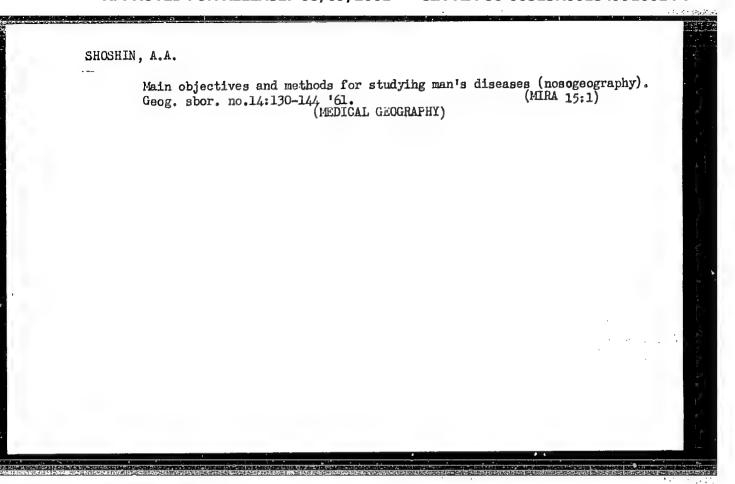
#### SHOSHIN, A.A.

Basic problems in and the methods for the medicogeographical study of a locality. Mat.Kom.med.geog.Geog.ob-va SSSR pt.1:22-40 '61. (MIRA 15:10)

(MEDICAL GEOGRAPHY)

SHOSHIN, A.A.; IGNAT'YEV, Ye.I.; MARKOVIN, A.P.; BYAKOV, V.P. Nature, objectives and methods of medical geography. Geog. sbor. (MIRA 15:1) no.14:5-13 '61. (MEDICAL GEOGRAPHY)

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SHOSHIN, A.A. Main problems in medical cartography. Geog. sbor. no.14:174-189 (MIRA 15:1) (MEDICAL GEOGRAPHY\_MAPS)

SHOSHIN, Aleksey Alekseyevich; IGNAT'YEV, Ye.I., otv.red.; PAVLOVSKIY, Ye.N., akademik, glavnyy red.; VASIL'YEVA, Z.A., red.izd-va; SOROKINA, V.A., tekhn.red.

[Principles of medical geography] Osnovy meditsinskoi geografii.
Moskva, Izd-vo.akad. nauk SSSR. 1962. 146 p. (Geograficheskoe obshchestvo SSSR. Zapiski, vol.22) (MIRA 15:12)

1. Prezident Geograficheskogo obshchestva SSSR (for Pavlovskiy).

(Medical geography)

ICHATIYEV, Ye.1., otv. red.; SHOLHIN, A.A., red.; BYAKOV, V.P., red.; VERSHINGRIY, B.V., red.; YAKOVLEV, A.V., red.; KHLEBOVICH, I.A., red.

[Medical geography; results and prospects] Meditsinskaia

geografiia; itogi, perspektivy. irkutsk, 1964. 208 p.
(MIRA 17:7)

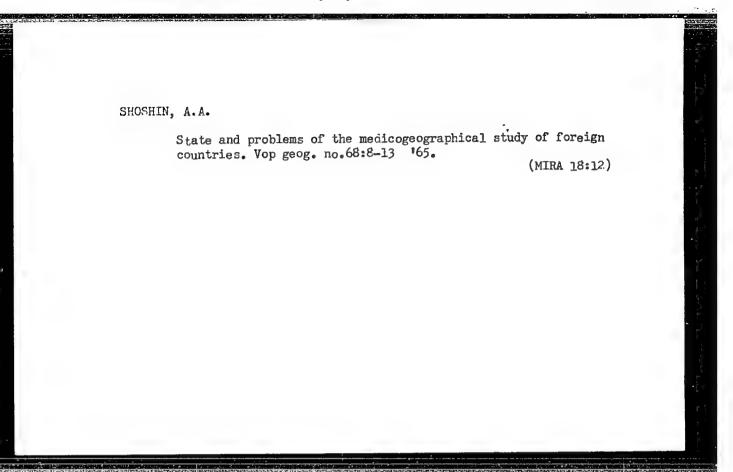
1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut goografii Sibirl i Dal'nego Vostoka.

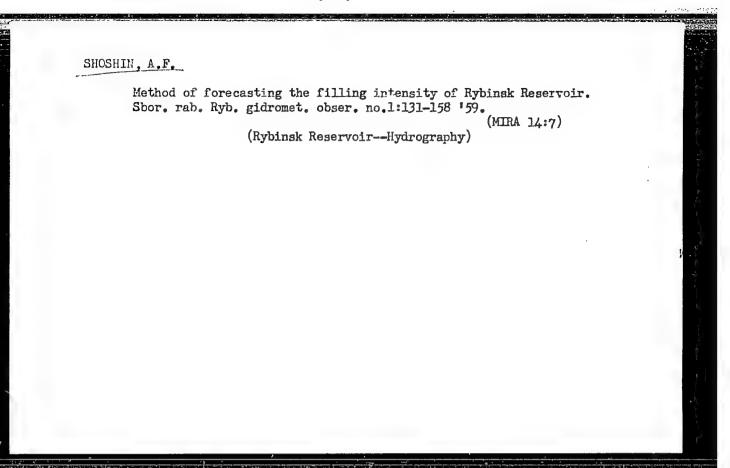
DERYAPA, Nikolay Romanovich; SHOSHIN, A.A., otv. red.

[Nature of the Antarctic and human acclimatization] Priroda Antarkiti i akklimatizatsiia cheloveka. Mcskva, Nauka, 1965. 15% p. (MIRA 18:7)

BERYAPA, Hikolay Romanovich; SHOSHIN, A.A., otv. red.

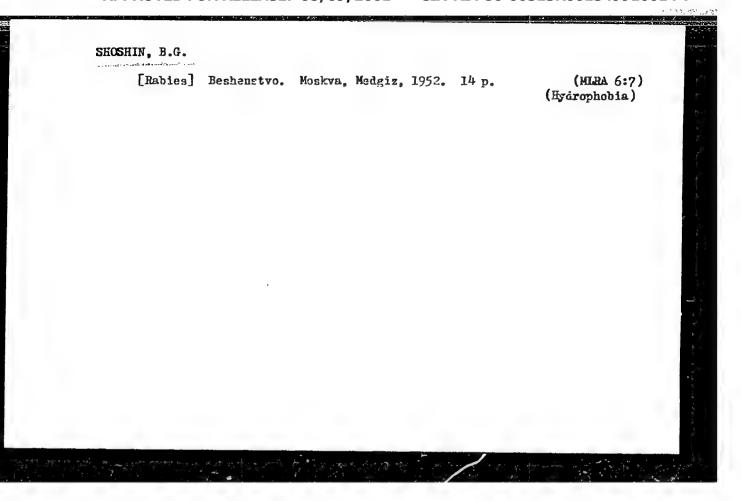
[Hature of Antarctica and the acclimatization of man.]
Priroda Antarktiki 1 akklimatizatsila chelovoka. Moskva,
Hauka, 1965. 154 p. (Geograficheskos obslohostvo SSSR.
Zapiski. Novaia seriia, vol.24) (MIRA 18:8)





FEDORENKO, V.A.; SHOSHIN, A.I.; KULACHKOV, V.I., inzh., red.;
YURKEVICH, M.P., inzh., red.izd-va; SHCHETININA, L.V.,
tekhn. red.

[Manual for machine drawing] Spravochnik po mashinostroitel'nomu chercheniiu. 7. izd., ispr. i dop. Moskva, Mashgiz, 1963. 280 p. (MIRA 16:8) (Machinery-Drawing)



SHOSHIN, B. G.

Rabies. Fel'dsher & akush., Moskva no. 5:34-39 May 1952. (CLML 22:3)

Jacobilli, 5. 3.

Insane - Hospitals

Gut-of-town psychiatric institutions; discussion. Zhur. nevr. i psikh. 52 nc. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

# SHOSHIN B.C.

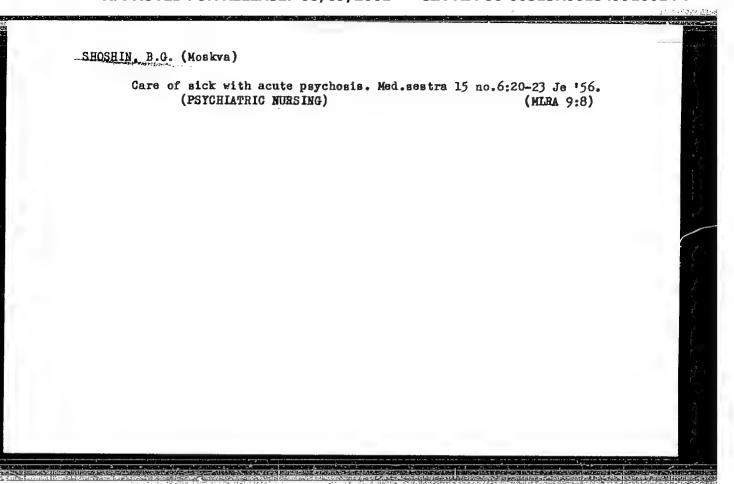
[Rabies and its control] Beshenstvo i bor'ba s nim. Moskva, Medgiz. 1954. 25 p. (MERA 8:3)

SHOSHIN, B.G., vrach (Moskva)

Psychotic states in various diseases. Med. sestra no.1:10-15 Ja \*55.

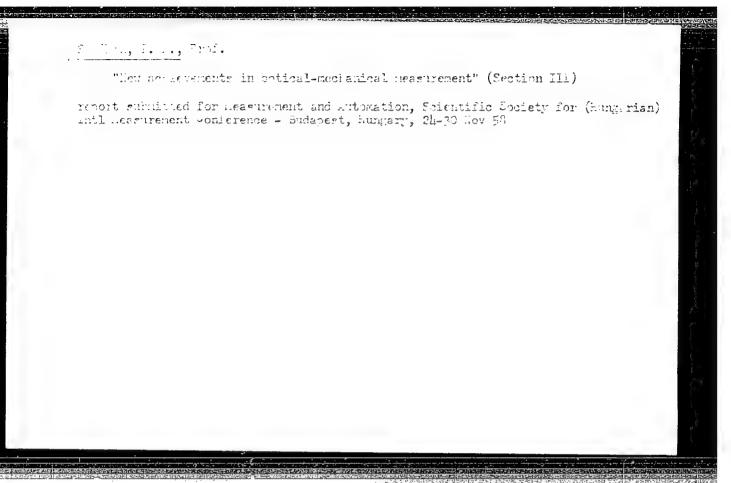
(PSYCHOSES, complications
in various dis.)

(MIRA 8:3)



"Modern Laboratory Apparatus," a report presented at the Conference of Commission on Astronomical Instruments Construction of the Astronomical Council, AS USSR, 1-12 pcb 56.

Fun. No. 1-47. 31 Aug 37



KRICHEVSKIY, Yevgeniy Samoylovich; FEDOROVICH, Leonid Grigor yevich; FETISOV,
Vladimir Fedorovich; VERTSNER, V.N., kand. fiz.-mat. nauk, retsenzent;
KRUGER, M.Ya., inzh., retsenzent; SHOSHIN, I.A., inzh., retsenzent;
SOBOLEV, S.F., inzh., retsenzent; DULIN, V.N., kand. tekhn. nauk,
red.; BOGOMOLOVA, M.F., red. izd-va; PUKHLIKOVA, N.A., tekhn. red.

[Electrical equipment in optical and mechanical instruments] Elektrooborudovanis optiko-mekhanicheskikh priborov. Moskva, Gos. izd-vo
obor. promyshl., 1958. 467 p. (MIRA 11:7)

(Electronic apparatus and appliances)

(Electronic apparatus and appliances)

# "APPROVED FOR RELEASE: 08/09/2001 C

CIA-RDP86-00513R001549910014-7

Dissertation: "Investigation of the Operation of an Automobile-Type Engine on Generator Cas."

27/3/50

Moscow Forestry Inst

SO Vecheryaya Moskva Sum 71

PERFILOV, M.A.; SHOSHIN, N.A.; NOVOSEL'TSEV, N.V., red.; MOROZOV, Yu.V., red. izd-ve; BACHURINA, A.M., tekhn, red.

[LTA-TSNIIME felling and skidding machine] Valochno-trelevochnaia mashina LTA-TsNIIME. [Leningrad] M-vo lesnoi promyshl. SSSR [1957] 6 p. (MIRA 11:10)

1. Moscow. Vsesoyuznaya promyshlenna ya vystavka. (Lumbering-Machinery)

PERFILOV, M.A.; SHOSHIN, N.A.

Tree-felling and trailing machines. Biul. tekh.-ekon. inform. no.1:
57-58 157.

(MIRA 11:4)

(Lumbering--Machinery)

Mechanization of the loading of pigment pastes into pigment-grinding machines. Lakokras.mat.i ikh prim. no.3:75-76 160.

(MIRA 14:4)

1. Tashkentskiy lakokrasochnyy zavod.
(Tashkent—Pigments)

(Loading and unloading)

s/056/62/042/006/006/047 B104/B102

AUTHORS:

Kulikov, O. F., Shoshin, P. B.

TITLE

An experimental investigation of the dimensions of an electron bunch during special operating conditions of a synchrotron

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 42,

no. 6, 1962, 1461 - 1463

TEXT: The variation in the amplitude of electron oscillation of a bunch during the increasing and the decreasing part of the magnetic cycle was investigated with the (-25 (S-25) synchrotron of the FIAN im. P. N. Lebedeva (FIAN imeni P. N. Lebedev). The maximum electron energy was 274 Mev. The duration of the hf pulse fed to the synchrotron resonator and the period that the electron was within the accelerating chamber were  $1\frac{1}{2}$  times those under normal conditions. The electron beam was photographed with an CKC1 (SKS-1) high-speed cinecamera. The intensity of the bunch luminescence was determined from bunch photographs by means of an MI-4 (MF-4) microphotometer. The amplitudes of radial oscillations of the bunch during the de-

Card 1/2

SIGSMAN, 1.D.; CHCHERB-ROV, V.A.; ELBEV, C.N., prof., reterment;

[Flamming in research institutes and design offices] Flaminovanie v nauchno-desiledovatel skikh institutekh i konctruktorskikh blure. Moskva, Rashinostroenie, 1962. 171 p. (MIRA 1749)

S/137/61/000/007/050/072 A060/A101

Zhukovskiy, B. D.; Fomichev, I. A.; Manevich, F. D.; Shoshin, AUTHORS:

V. A.

Present state of theory and direction of development of the process TITLE:

of forming pipe stock on continuous pipe molding mills

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 7, 1961, 38, abstract 7D303

("Tr. Ukr. n.-i. trubn. in-ta", 1959, no. 2, 136-146)

The existing methods of molding pipe stock on continuous pipe-molding mills by means of 2 or 4 rolls (with radius decreasing along the pass, 2 radii, one radius with flat central part) as well as the possibility of applying each of these methods in the molding of thin-walled and thick-walled, small diameter and large diameter pipes, are analyzed. The effect of neighboring stands on the process of skelp deformation, the rise of zones in the contactless deformation of skelp, leading to an elongation in skelp edges and the possibility of the appearance of corrugations or even loss of stability of the profile are considered. It is recommended to set up roll or continuous conduits between molding stands.

Card 1/2

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Present state of theory and direction ...

S/137/61/000/007/050/072 A060/A101

Experiments are reported regarding tests of molding with conduits of pipes 30  $\times$  0.3 and 152  $\times$  3.25 mm. Bibliography contains 9 names.

V. Tsirul nikov

[Abstracter's note: Complete translation]

Card 2/2

s/123/62/000/013/017/021 A004/A101

AUTHORS:

Fomichev, I.A., Shoshin, V. A.

TITLE:

Longitudinal deformations of the strip in continuous bending into

pipe blanks

PERIODICAL:

Referativnyy zhurnal, Mashinostroyeniye, no. 13, 1962, 25-26, abstract 13V99. (In collection: "Proiz-vo trub". No. 6, Khar'kov,

Metallurgizdat, 1962, 102-110)

The authors report on investigations carried out to study the profiling process of strip 95 mm wide with a thickness h = 1, 1.25, 1.5 and 1.8 mm into pipes 30 mm in diameter on a multiple roller-pair profiling and bending machine, to elucidate the mechanism of wave formation on the edges. The longitudinal elongations of the edges were measured with wire tensometers and by the marking method. It was found that, in front of the stand, the edge stretches evenly at the start (beginning with a distance up to the stand axis 1 = 270 - 100 mm), then abruptly (1 = 150-100 mm), reaching its maximum at 1 = 80-40 mm, which amounts to 0.3-0.8% of the relative deformation depending on h and the number of the stand, after which an abrupt contraction takes place, which ends behind the stand (1 = 20-40 mm).

Card 1/2

Longitudinal deformations of the ...

S/123/62/000/013/017/021 A004/A101

The load and residual elongations grow with an increase of h. The longitudinal deformations over the width of the strip were measured with tensometers (in the middle and at a distance of 26 and 42.5 mm from the center). A graph has been plotted showing the changes in longitudinal deformations in various points over the strip width in sections in front of the stand 1 = 240 and behind the stand 1 = 120 mm. Stress vectors have been obtained for the strip cross section shaped into an arc of 60.3 mm radius for 1 = 20 mm and, using the conditions of the tension diagram, the stress distribution diagram was plotted. Tensile stresses are acting on the middle of the strip and on the edges, while the intermediate points (between the middle and the edges) are affected by compression stresses. The origination of waves is explained by the interaction of the previously residually elongated edges with the middle part of the strip, when the strip is passing the zone of contraction of the edges which causes the strip to lose its resistance to compression. To increase the resistance of the edges the authors recommend: reducing the edge bending radius, using additional supports for the edges (rollers and wires) increasing the roller diameter and improving the contact of the strip with the gages over its whole width. There are 6 figures and 4 references.

[Abstracter's note: Complete translation]

Yu. Semenenko

Card 2/2

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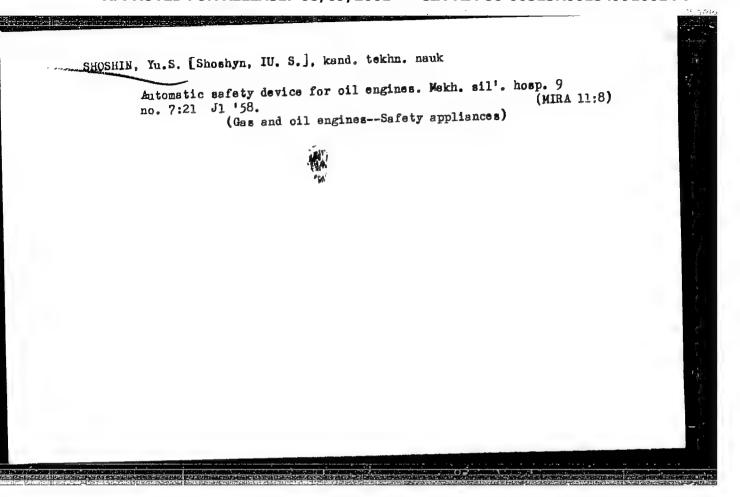
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